

# Safety Data Sheet

Astro HPE Sealant

UIC of product-type: AFHPE

Revision 14 - 14th February 2022



## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product form** : Mixture  
**Product Code** : AFHPESG  
**Product Name** : Astro HPE  
**Type of product** : Sealants  
**Product group** : Trade product

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

**Main use category** : Professional use  
**Industrial/Professional use spec** : For professional use only  
**Use of the substance/mixture** : Adhesives, sealants

#### 1.2.2 Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

**Company Name** : Astroflame (Fireseals) LTD  
Unit 8 , I.O Centre  
Stephenson Road  
Segensworth  
Fareham  
PO15 5RU  
United Kingdom

**Tel Number** : (0) 44 1329 844500

**Email** : sales@astroflame.com

### 1.4. Emergency telephone number

**Tel Number** : (0) 44 1329 844500 During office hours 08:00 - 17:30

## Section 2: Classification of the substance or mixture

### 2.1. Classification of the substance or mixture



Classification according to Regulation (EC) No. 1272/2008 [CLP]

**Serious eye damage/eye irritation, Category 2** : H319  
**Reproductive toxicity, Category 2** : H361  
**Hazardous to the aquatic environment — Chronic Hazard, Category 3** : H412  
**Full text of H statements** : see section 16

**Adverse physicochemical, human health and environmental effects**

Causes serious eye irritation. Harmful to aquatic life with long lasting effects. Suspected of damaging fertility or the unborn child.

**2.2. Label elements**
**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms (CLP)** :    
 GHS07 GHS08

**Signal word (CLP)** : Warning

**Hazardous ingredients** : Melamine

**Hazard statements (CLP)** : 319 - Causes serious eye irritation.  
 H361 - Suspected of damaging fertility or the unborn child.  
 H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements (CLP)** : P201 - Obtain special instructions before use.  
 P280 - Wear protective clothing, eye protection, face protection.  
 P308+P313 - IF exposed or concerned: Get medical advice/attention.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.

**EUH-statements** : EUH208 - Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

**2.3. Other hazards**

No additional information available

**Section 3: Composition/information on ingredients**
**3.1. Substances**

Not applicable

**3.2. Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Graphite	(CAS-No.) 7782-42-5 (EC-No.) 231-955-3	10 – 30	Not classified
Aluminium Hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7 (REACH-no) 01-2119529246-39	10 – 30	Not classified
Melamine	(CAS-No.) 108-78-1 (EC-No.) 203-615-4	1 – 10	Repr. 2, H361
Alkylphenol polypropylene glycol ether	(CAS-No.) 9064-15-7 (EC-No.) 696-008-2	1 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

## Section 4: First aid measures

### 4.1. Description of first aid measures

<b>First-aid measures general</b>	: IF exposed or concerned: Get medical advice/attention.
<b>First-aid measures after inhalation</b>	: Remove person to fresh air and keep comfortable for breathing.
<b>First-aid measures after skin contact</b>	: Wash skin with plenty of water.
<b>First-aid measures after eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>First-aid measures after ingestion</b>	: Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects , both acute and delayed

<b>Symptoms/effects after eye contact</b>	: Eye irritation.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## Section 5: Fire-Fighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	: Water spray. Dry powder. Foam. Carbon dioxide.
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### 5.2. Special hazards arising from the substance or mixture

**Hazardous decomposition products in case of fire** : Toxic fumes may be released.

### 5.3. Advice for fire - fighters

<b>Protection during firefighting</b>	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

<b>Emergency procedures</b>	: Ventilate spillage area. Avoid contact with skin and eyes.
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#### 6.1.2. For non-emergency personnel

<b>Protective equipment</b>	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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### 6.2. Environmental precautions

Avoid release to the environment.

**6.3. Methods and materials for containment and cleaning up**

- Methods for cleaning up** : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information** : Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

- Precautions for safe handling** : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Hygiene measures** : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

- Storage conditions** : Store in a well-ventilated place. Keep cool. Store locked up.

**7.3. Specific end use(s)**

No additional information available

**Section 8: Control parameters/personal protection**

**8.1. Control parameters**

<b>Aluminium Hydroxide (21645-51-2)</b>	
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
WEL STEL (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>
<b>Graphite (7782-42-5)</b>	
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> inhalable dust
respirable	4 mg/m <sup>3</sup>

**8.2. Exposure controls**

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Personal protective equipment:**

Dust formation: dust mask. Gloves.

**Hand protection:**

Protective gloves

**Eye protection:**

Safety glasses

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

**Personal protective equipment symbol(s):**



**Environmental exposure controls:**

Avoid release to the environment.

**9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	: Liquid
<b>Appearance</b>	: Paste.
<b>Colour</b>	: Grey.
<b>Odour</b>	: No data available
<b>Odour threshold</b>	: No data available
<b>pH</b>	: 5 – 9
<b>Relative evaporation rate (butylacetate=1)</b>	: No data available
<b>Melting point</b>	: Not applicable
<b>Freezing point</b>	: No data available
<b>Boiling point</b>	: No data available
<b>Flash point</b>	: No data available
<b>Auto-ignition temperature</b>	: No data available
<b>Decomposition temperature</b>	: No data available
<b>Flammability (solid, gas)</b>	: Not applicable
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density at 20 °C</b>	: No data available
<b>Relative density</b>	: 1.3 – 1.4
<b>Solubility</b>	: No data available

<b>Partition coefficient n-octanol/water (Log Pow)</b>	: No data available
<b>Viscosity, kinematic</b>	: No data available
<b>Viscosity, dynamic</b>	: No data available
<b>Explosive properties</b>	: No data available
<b>Oxidising properties</b>	: No data available
<b>Explosive limits</b>	: No data available

**9.2. Other information**

No additional information available

**Section 10: Stability and reactivity**

**10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical Stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

Oxidizing agent. Strong acids.

**10.6. Hazardous Decomposition Products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

<b>Acute toxicity (oral)</b>	: Not classified
<b>Acute toxicity (dermal)</b>	: Not classified
<b>Acute toxicity (inhalation)</b>	: Not classified

<b>Aluminium Hydroxide (21645-51-2)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 2.3 mg/l
<b>Graphite (7782-42-5)</b>	
LD50 oral rat	> 2000 mg/kg
LD50, mouse, long term, Inhalation, mouse, systemic	10 mg/kg (Hours Hours)

<b>Melamine (108-78-1)</b>	
LC50 Inhalation - Rat	> 5.19 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))

<b>Skin corrosion/irritation</b>	: Not classified pH: 5 – 9
<b>Serious eye damage/irritation</b>	: Causes serious eye irritation. pH: 5 – 9
<b>Respiratory or skin sensitisation</b>	: Not classified
<b>Germ cell mutagenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified
<b>Reproductive toxicity</b>	: Suspected of damaging fertility or the unborn child.

<b>Aluminium Hydroxide (21645-51-2)</b>	
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

**STOT-single exposure** : Not classified

**STOT-repeated exposure** : Not classified

**Aspiration hazard** : Not classified

## Section 12: Ecological information

### 12.1. Toxicity

<b>Ecology - general</b>	: Harmful to aquatic life with long lasting effects.
<b>Hazardous to the aquatic environment, short-term (acute)</b>	: Not classified
<b>Hazardous to the aquatic environment, long-term (chronic)</b>	: Harmful to aquatic life with long lasting effects.
<b>Not rapidly degradable</b>	

<b>Graphite (7782-42-5)</b>	
LC50 fish 1	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 100 mg/l
EC50 72h algae (2)	> 100 mg/l
NOEC (chronic)	47 mg/l Test organisms (species): Daphnia magna Duration: '21 d'



<b>Melamine (108-78-1)</b>	
LC50 fish 1	> 3000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 Daphnia 1	200 mg/l Test organisms (species): Daphnia magna
EC50 96h algae (1)	325 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	> 11 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 11 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 5.1 mg/l Test organisms (species): Pimephales promelas Duration: '36 d'

**12.2. Persistence and Degradability**

No additional information available

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

<b>PyroPro HPE</b>	
Ecology - soil	Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

<b>Regional legislation (waste)</b>	: Disposal must be done according to official regulations.
<b>Waste treatment methods</b>	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

**Section 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

**14.6. Special precautions for user**

**Overland transport**

Not applicable

**Transport by sea**

Not applicable

**Air transport**

Not applicable

**Inland waterway transport**

Not applicable

**Rail transport**

Not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**Section 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## Section 16: Other information

<b>Abbreviations and acronyms:</b>	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

<b>Full text of H- and EUH-statements:</b>	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains . May produce an allergic reaction.

The classification complies with : ATP 12

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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